

I. General

This portion of the project involves the installation of the ultimate traffic control signal at the intersection of MD 108 and MD 104. MD 108 is assumed to run in a east-west direction.

II. Intersection Operation

This intersection is proposed to operate in a fully actuated mode with westbound left turn lane operating in an exclusive/permissive phase.

III. Special Notes

1. The following contact persons for District #7 are as follows:

Mr. Robert Fisher District Engineer (301)694-2145	Mr. John Concannon Asst. District Engineer - Traffic (301)694-2592
Mr. Jim Brown Utility Engineer (301)694-2025	Mr. Richard Daff Chief, Traffic Operations Division (410)787-7630
Mr. Leon King Asst. District Engineer - Maintenance (301) 694-1966	

2. Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 105.00, 105.01, 105.02, 105.03, 105.03, 105.101, 105.103, 105.105, 105.107, 105.109

EQUIPMENT LIST

A. Equipment to be supplied by the Administration

Item No.	Quantity	Units	Specification Section	Description
	1	EA	814	12 in. 1 way 3 section (R,Y,G) signal head - mast arm mount.
	1	EA	814	12 in. 1 way 5 section (R,Y,G,YA,GA) signal head - mast arm mount.
	2	EA	XXX	Microloop probe set with 500 ft. lead in cables
	30	SF	813	Sheet aluminum signs consisting of:
	1	EA	-	R10-12, (36 in. x 42 in.) "Left Turn Yield on Green",-mast arm mount.
	2	EA	-	D3-2 (var x 16 in.) mast arm mount.

EQUIPMENT LIST (CONT.)

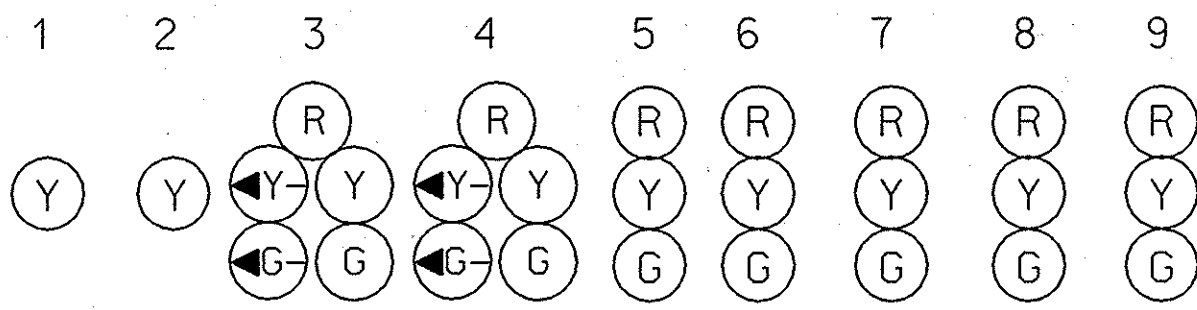
B. Equipment to be furnished and/or installed by the Contractor.

Item No.	Quantity	Units	Specification Section	Description
60	LF	555		24 in. white preformed pavement marking tape.
50	LF	555		Remove existing pavement marking.
20	LF	805		Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.
120	LF	810		Furnish and install electrical cable - 2 conductor (Aluminum shielded).
20	LF	810		Furnish and install electrical cable - 5 conductor (No. 14 AWG).
300	LF	810		Furnish and install electrical cable - 7 conductor (No. 14 AWG).
900	LF	810		Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
30	SF	813		Install overhead sign for signals.
2	EA	814		Install signal head - any type
220	LF	815		Furnish and install saw cut for signal (loop detector).
1	EA	822		As-built for traffic signal - use existing disk.
1	LS	SP		Removal and disposal of existing traffic signal equipment.
2	EA	xxx		Install micro loop probe set
1	LS	SP		Remove and salvage existing existing traffic signal equipment.
1	LS	SP		Delivery of existing material to be salvaged consisting of:
1	EA			Eight phase (fully actuated) controller and cabinet - pole mount.

B. Equipment to be furnished and/or installed by the Contractor.

Item No.	Quantity	Units	Specification Section	Description
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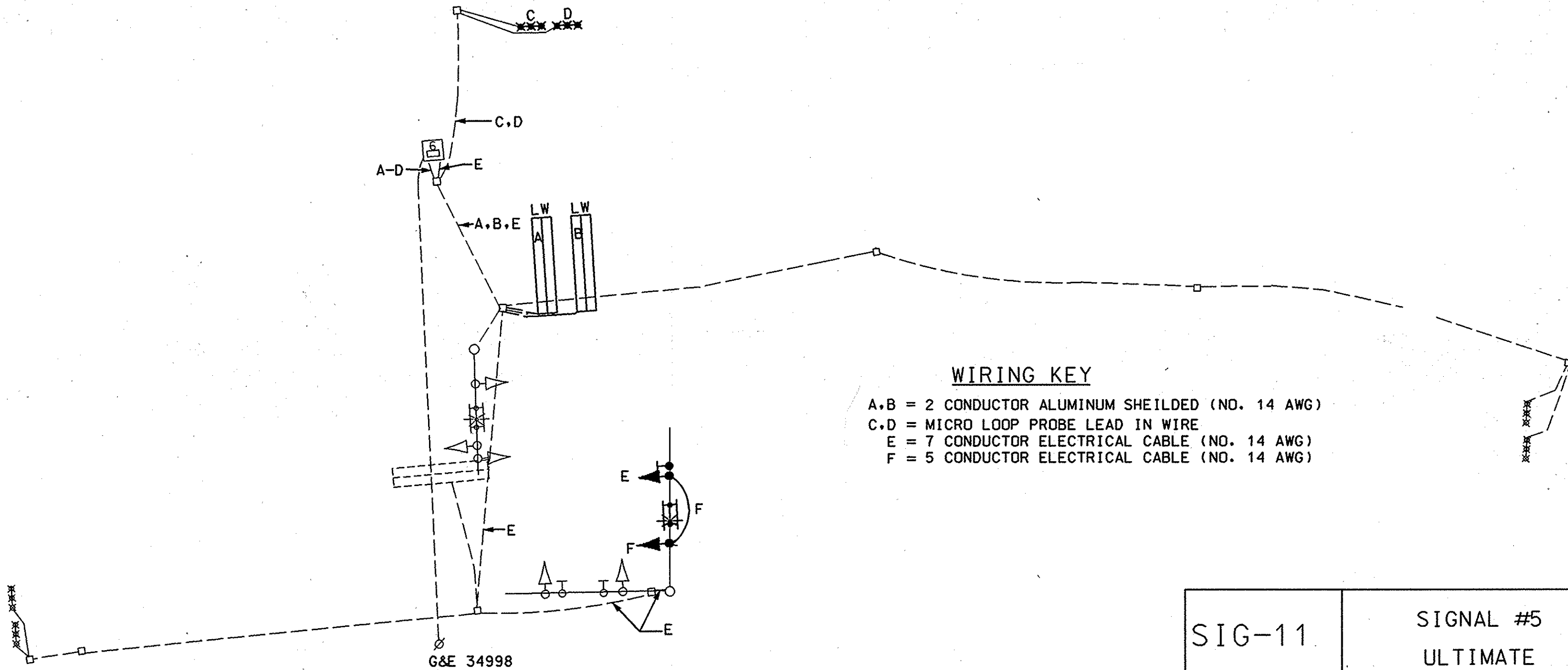
PHASING SEQUENCE CHART



PHASE 1 & 6	FL/Y	FL/Y	←G-/G	←G-/G	G	R	R	R	R	
PHASE 1 & 6 CLEAR	FL/Y	FL/Y	←Y-/G	←Y-/G	G	R	R	R	R	→
PHASE 2 & 6	FL/Y	FL/Y	G	G	G	G	G	R	R	←
PHASE 2 & 6 CLEAR	FL/Y	FL/Y	Y	Y	Y	Y	Y	R	R	←
PHASE 4	FL/Y	FL/Y	R	R	R	R	R	G	G	↓
PHASE 4 CLEAR	FL/Y	FL/Y	R	R	R	R	R	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↕

R= RED
Y= YELLOW
G= GREEN
YA= YELLOW ARROW
GA= GREEN ARROW
FL= FLASHING

WIRING DIAGRAM



WIRING KEY

A,B = 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 AWG)
C,D = MICRO LOOP PROBE LEAD IN WIRE
E = 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
F = 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

SIG-11

SIGNAL #5
ULTIMATE

REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 108 @ MD 104
GENERAL INFORMATION SHEET

DATE 3/15/98

DRAWN BY: R. CICCHINI
CHECK BY:
SCALE:

F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. HO-661-502-770
COUNTY HOWARD

PLAN SHEET NO.: 1589C
SHEET NO. 422.1 OF 529

JDCL
CONSULTING ENGINEERS
COLUMBIA, MARYLAND